

PUBLICATIONS DURING 2002

HEAVY-ION NUCLEAR PHYSICS RESEARCH

Energy Dependence of Particle Multiplicities in Central Au + Au Collisions

B. B. Back et al. (PHOBOS Collaboration)
 Phys. Rev. Lett. **88**, 022302/1-4 (2002)

Direct Decay from the Superdeformed Band to the Yrast Line in $^{152}_{66}\text{Dy}$

T. Lauritsen, M. P. Carpenter, T. Døssing, P. Fallon, B. Herskind, R. V. F. Janssens,
 D. G. Jenkins, T. L. Khoo, F. G. Kondev, A. Lopez-Martens, A. O. Macchiavelli, D. Ward,
 K. S. Abu Saleem, I. Ahmad, R. Clark, M. Cromaz, J. P. Greene, F. Hannachi, A. M. Heinz,
 A. Korichi, G. Lane, C. J. Lister, P. Reiter, D. Seweryniak, S. Siem, R. C. Vondrasek, and
 I. Wiedenhöver
 Phys. Rev. Lett. **88**, 042501/1-4 (2002)

Melting of Crystalline Confined Plasmas

J. P. Schiffer
 Phys. Rev. Lett. **88**, 205003/1-4 (2002)

Prompt Proton Decay Scheme of ^{59}Cu

D. Rudolph, C. Andreoiu, C. Fahlander, R. J. Charity, M. Devlin, D. G. Sarantites,
 L. G. Sobotka, D. P. Balamuth, J. Eberth, A. Galindo-Uribarri, P. A. Hausladen,
 D. Seweryniak, and Th. Steinhardt
 Phys. Rev. Lett. **89**, 022501/1-4 (2002)

Unexpected Behavior of Heavy-Ion Fusion Cross Sections at Extreme Sub-Barrier Energies

C. L. Jiang, H. Esbensen, K. E. Rehm, B. B. Back, R. V. F. Janssens, J. A. Caggiano,
 P. Collon, J. Greene, A. M. Heinz, D. J. Henderson, I. Nishinaka, T. O. Pennington, and
 D. Seweryniak
 Phys. Rev. Lett. **89**, 052701/1-4 (2002)

Large Angle Elastic Alpha Scattering on a $N = Z$ Nucleus Above $A = 40$

K. E. Rehm, C. L. Jiang, I. Ahmad, J. Caggiano, P. Collon, J. P. Greene, D. Henderson,
 A. Heinz, R. V. F. Janssens, R. C. Pardo, T. Pennington, J. P. Schiffer, R. H. Siemssen,
 A. H. Wuosmaa, M. Paul, and P. Mohr
 Phys. Rev. Lett. **89**, 132501/1-4 (2002)

Pseudorapidity and Centrality Dependence of the Collective Flow of Charged Particles in
 Au + Au Collisions at $\sqrt{s_{NN}} = 130 \text{ GeV}$

B. B. Back et al.
 Phys. Rev. Lett. **89**, 222301/1-4 (2002)

Octupole Vibration in Superdeformed $^{152}_{66}\text{Dy}_{86}$

T. Lauritsen, R. V. F. Janssens, M. P. Carpenter, T. Døssing, P. Fallon, B. Herskind, D. G. Jenkins, T. L. Khoo, F. G. Kondev, A. Lopez-Martens, A. O. Macchiavelli, D. Ward, K. S. Abu Saleem, I. Ahmad, R. M. Clark, M. Cromaz, T. Døssing, A. M. Heinz, A. Korichi, G. Lane, C. J. Lister, and D. Seweryniak
Phys. Rev. Lett. **89**, 282501/1-4 (2002)

Isovector Pairing in Odd-Odd $N = Z = 50\text{Mn}$

C. D. O'Leary, M. A. Bentley, S. M. Lenzi, G. Martínez-Pinedo, D. D. Warner, A. M. Bruce, J. A. Cameron, M. P. Carpenter, C. N. Davids, P. Fallon, L. Frankland, W. Gelletly, R. V. F. Janssens, D. T. Joss, C. J. Lister, P. H. Regan, P. Reiter, B. Rubio, D. Seweryniak, C. E. Svensson, S. M. Vincent, and S. J. Williams
Phys. Lett. **B525**, 49-55 (2002)

First Observation of Excited Structures in Neutron-Deficient ^{179}Hg : Evidence for Multiple Shape Coexistence

F. G. Kondev, M. P. Carpenter, R. V. F. Janssens, C. J. Lister, K. Abu Saleem, I. Ahmad, H. Amro, J. Caggiano, C. N. Davids, A. Heinz, B. Herskind, T. L. Khoo, T. Lauritsen, W. C. Ma, J. J. Ressler, W. Reviol, L. L. Riedinger, D. G. Sarantites, D. Seweryniak, S. Siem, A. A. Sonzogni, P. G. Varmette, and I. Wiedenhöver
Phys. Lett. **B528**, 221-227 (2002)

Identification of Excited States in ^{140}Dy

D. M. Cullen, M. P. Carpenter, C. N. Davids, A. M. Fletcher, S. J. Freeman, R. V. F. Janssens, F. G. Kondev, C. J. Lister, L. K. Pattison, D. Seweryniak, J. F. Smith, A. M. Bruce, K. Abu Saleem, I. Ahmad, A. Heinz, T. L. Khoo, E. F. Moore, G. Mukherjee, C. Wheldon, and A. Woehr
Phys. Lett. **B529**, 42-49 (2002)

Structure of $^{52,54}\text{Ti}$ and Shell Closures in Neutron-Rich Nuclei Above ^{38}Ca

R. V. F. Janssens, B. Fornal, P. F. Mantica, B. A. Brown, R. Broda, P. Bhattacharyya, M. P. Carpenter, M. Cinausero, P. J. Daly, A. D. Davies, T. Glasmacher, Z. W. Grabowski, D. E. Groh, M. Honma, F. G. Kondev, W. Krblas, T. Lauritsen, S. N. Liddick, S. Lunardi, N. Marginean, T. Mizusaki, D. J. Morrissey, A. C. Morton, W. F. Mueller, T. Otsuka, T. Pawlat, D. Seweryniak, H. Schatz, A. Stolz, S. L. Tabor, C. A. Ur, G. Viesti, I. Wiedenhöver, and J. Wrzesiński
Phys. Lett. **B546**, 55-62 (2002)

Spectroscopy of Transfermium Nuclei: $^{252}_{102}\text{No}$

R.-D. Herzberg, N. Amzal, F. Becker, P. A. Butler, A. J. C. Chewter, J. F. C. Cocks, O. Dorvaux, K. Eskola, J. Gerl, P. T. Greenlees, N. J. Hammond, K. Hauschild, K. Helariutta, F. Heßberger, M. Houry, G. D. Jones, P. M. Jones, R. Julin, S. Juutinen, H. Kankaanpää, H. Kettunen, T. L. Khoo, W. Korten, P. Kuusiniemi, Y. Le Coz, M. Leino, C. J. Lister, R. Lucas, M. Muikku, P. Nieminen, R. D. Page, P. Rahkila, P. Reiter, Ch. Schlegel, C. Scholey, O. Stezowski, Ch. Theisen, W. H. Trazaska, J. Uusitalo, and H. J. Wollersheim
 Phys. Rev. C **65**, 014303/1-7 (2002)

Observation of Rotational Bands in the Neutron-Rich ^{107}Ru Nucleus

S. J. Zhu, J. H. Hamilton, A. V. Ramayya, J. K. Hwang, C. Y. Gan, X. Q. Zhang, C. J. Beyer, J. Kormicki, M. Sakhaei, L. M. Yang, L. Y. Zhu, R. Q. Xu, Z. Zhang, Z. Jiang, W. C. Ma, E. F. Jones, P. M. Gore, J. D. Cole, M. W. Drigert, I. Y. Lee, J. O. Rasmussen, T. N. Ginter, Y. X. Luo, S. C. Wu, C. Folden, P. Fallon, P. Zielinski, K. E. Gregorich, A. O. Macchiavelli, S. J. Asztalos, G. M. Ter-Akopian, Yu. Ts. Oganessian, M. A. Stoyer, J. P. Greene, R. V. F. Janssens, and I. Ahmad

Phys. Rev. C **65**, 014307/1-6 (2002)

Excitations of Two- and Three-Valence-Proton Nuclei ^{107}Te and ^{135}I

S. K. Saha, C. Constantinescu, P. J. Daly, P. Bhattacharyya, C. T. Zhang, Z. W. Grabowski, B. Fornal, R. Broda, I. Ahmad, D. Seweryniak, I. Wiedenhöver, M. P. Carpenter, R. V. F. Janssens, T. L. Khoo, T. Lauritsen, C. J. Lister, and P. Reiter
 Phys. Rev. C **65**, 017302/1-4 (2002)

 ^{100}Sn Core Excitations in ^{102}In

M. Lipoglavšek, C. Baktash, M. P. Carpenter, D. J. Dean, T. Engeland, C. Fahlander, M. Hjorth-Jensen, R. V. F. Janssens, A. Likar, J. Nyberg, E. Osnes, S. D. Paul, A. Piechaczek, D. C. Radford, D. Rudolph, D. Seweryniak, D. G. Sarantites, M. Vencelj, and C.-H. Yu
 Phys. Rev. C **65**, 021302(R)/1-5 (2002)

Rotational Structures in ^{129}Nd and Signature Splitting Systematics of the $\nu h_{11/2}$ Bands in A \sim 130 Nuclei

O. Zeidan, D. J. Hartley, L. L. Reidinger, M. Danchev, W. Reviol, W. D. Weintraub, Jing-ye Zhang, A. Galindo-Uribarri, C. J. Gross, S. D. Paul, C. Baktash, M. Lipoglavsek, D. C. Radford, C. H. Yu, D. G. Sarantites, M. Devlin, M. P. Carpenter, R. V. F. Janssens, D. Seweryniak, and E. Padilla

Phys. Rev. C **65**, 024303/1-15 (2002)

First Observation of Excited States in ^{139}I

W. Urban, T. Rzaca-Urban, A. Korgul, J. L. Durell, M. J. Leddy, M. A. Jones, W. R. Phillips, A. G. Smith, B. J. Varley, I. Ahmad, L. R. Morss, and N. Schulz
 Phys. Rev. C **65**, 024307/1-4 (2002)

Angular Correlation, Spin Alignment, and Resonance Behavior in $^{12}\text{C} + ^{12}\text{C}$ Inelastic Scattering
A. H. Wuosmaa, D. J. Hofmann, B. B. Back, D. J. Blumenthal, S. Fischer, D. J. Henderson,
R. V. F. Janssens, C. J. Lister, V. Nanal, D. Nisius, M. D. Rhein, and P. R. Wilt
Phys. Rev. C **65**, 024609/1-11 (2002)

Centrality Dependence of Charged Particle Multiplicity at Midrapidity in Au + Au Collisions at
 $\sqrt{s_{NN}} = 130 \text{ GeV}$
B. B. Back *et al.* (PHOBOS Collaboration)
Phys. Rev. C **65**, 031901(R)/1-4 (2002)

Highly Deformed Band Structure in ^{57}Co
W. Reviol, D. G. Sarantites, R. J. Charity, V. Tomov, J. Dobaczewski, D. Rudolph,
R. M. Clark, M. Cromaz, P. Fallon, A. O. Macchiavelli, M. P. Carpenter, and D. Seweryniak
Phys. Rev. C **65**, 034309/1-10 (2002)

Competition Between Terminating and Collective Structures Above Spin 40 \hbar in ^{154}Dy
W. C. Ma, R. V. F. Janssens, T. L. Khoo, I. Ragnarsson, M. A. Riley, M. P. Carpenter,
J. R. Terry, J. P. Zhang, I. Ahmad, P. Bhattacharyya, P. J. Daly, S. M. Fischer, J. H. Hamilton,
T. Lauritsen, D. T. Nisius, A. V. Ramayya, R. K. Vadapalli, P. G. Varmette, J. W. Watson,
C. T. Zhang, and S. J. Zhu
Phys. Rev. C **65**, 034312/1-8 (2002)

β -Decay Studies of $^{135-137}\text{Sn}$ Using Selective Resonance Laser Ionization Techniques
J. Shergur, B. A. Brown, V. Fedoseyev, U. Köster, K.-L. Kratz, D. Seweryniak, W. B. Walters,
A. Wöhr, D. Fedorov, M. Hannawald, M. Hjorth-Jensen, V. Mishin, B. Pfeiffer, J. J. Ressler,
H. O. U. Fynbo, P. Hoff, H. Mach, T. Nilsson, K. Wilhelmsen-Rolander, H. Simon,
A. Bickley, and the ISOLDE Collaboration
Phys. Rev. C **65**, 034313/1-9 (2002)

Structure of High-Spin States in ^{91}Sr and ^{92}Sr
E. A. Stefanova, M. Danchev, R. Schwengner, D. L. Balabanski, M. P. Carpenter,
M. Djongolov, S. M. Fischer, D. J. Hartley, R. V. F. Janssens, W. F. Mueller, D. Nisius,
W. Reviol, L. L. Riedinger, and O. Zeidan
Phys. Rev. C **65**, 034323/1-10 (2002)

Widths of Astrophysically Important Resonances in ^{18}Ne
B. Harss, C. L. Jiang, K. E. Rehm, J. P. Schiffer, J. Caggiano, P. Collon, J. P. Greene,
D. Henderson, A. Heinz, R. V. F. Janssens, J. Nolen, R. C. Pardo, T. Pennington,
R. H. Siemssen, A. A. Sonzogni, J. Uusitalo, I. Wiedenhöver, M. Paul, T. F. Wang, F. Borasi,
R. E. Segel, J. C. Blackmon, M. Smith, A. Chen, and P. Parker
Phys. Rev. C **65**, 035803/1-9 (2002)

Toward Complete Spectroscopy of ^{128}Pr and Rotational Structures in ^{126}Pr

D. J. Hartley, L. L. Riedinger, M. Danchev, W. Reviol, O. Zeidan, Jing-ye Zhang, A. Galindo-Uribarri, C. J. Gross, C. Baktash, M. Lipoglavsek, S. D. Paul, D. C. Radford, C.-H. Yu, D. G. Sarantites, M. Devlin, M. P. Carpenter, R. V. F. Janssens, D. Seweryniak, and E. Padilla
Phys. Rev. C **65**, 044329/1-22 (2002)

 β Decay Studies of $^{109,107}\text{Sb}$

J. J. Ressler, W. B. Walters, D. S. Brenner, C. N. Davids, A. Heinz, G.-L. Poli, J. Shergur, and D. Seweryniak
Phys. Rev. C **65**, 044330/1-12 (2002)

Testing Mean-Field Models Near the $N = Z$ Line: γ -Ray Spectroscopy of the $T_z = \frac{1}{2}^-$ Nucleus ^{73}Kr

N. S. Kelsall, S. M. Fischer, D. P. Balamuth, G. C. Ball, M. P. Carpenter, R. M. Clark, J. Durell, P. Fallon, S. J. Freeman, P. A. Hausladen, R. V. F. Janssens, D. G. Jenkins, M. Leddy, C. J. Lister, A. O. Macchiavelli, D. G. Sarantites, D. C. Schmidt, D. Seweryniak, C. E. Svensson, B. J. Varley, S. Vincent, R. Wadsworth, A. N. Wilson, A. V. Afanasjev, S. Frauendorf, I. Ragnarsson, and R. Wyss
Phys. Rev. C **65**, 044331/1-13 (2002)

Excited States of the Proton Emitter ^{105}Sb

M. Lipoglavšek, C. Baktash, M. P. Carpenter, D. J. Dean, T. Engeland, C. Fahlander, M. Hjorth-Jensen, R. V. F. Janssens, A. Likar, J. Nyberg, E. Osnes, S. D. Paul, A. Piechaczek, D. C. Radford, D. Rudolph, D. Seweryniak, D. G. Sarantites, M. Vencelj, and C. H. Yu
Phys. Rev. C **65**, 051307(R)/1-4 (2002)

Core-Excited Smoothly Terminating Band in ^{114}Xe

E. S. Paul, A. J. Boston, H. J. Chantler, J. P. Nolan, M. P. Carpenter, R. V. F. Janssens, F. G. Kondev, D. Seweryniak, C. J. Chiara, D. B. Fossan, T. Koike, K. Starosta, D. R. LaFosse, A. M. Fletcher, J. C. Lisle, D. Patel, J. F. Smith, W. Reviol, D. G. Sarantites, R. Wadsworth, A. N. Wilson, and I. Ragnarsson
Phys. Rev. C **65**, 051308(R)/1-4 (2002)

Identification of New States in ^{26}Si Using the $^{29}\text{Si}(^3\text{He}, ^6\text{He})^{26}\text{Si}$ Reaction and Consequences for the $^{25}\text{Al}(p, \gamma)^{26}\text{Si}$ Reaction Rate in Explosive Hydrogen Burning Environments

J. A. Caggiano, W. Bradfield-Smith, R. Lewis, P. D. Parker, D. W. Visser, J. P. Greene, K. E. Rehm, D. W. Bardayan, and A. E. Champagne
Phys. Rev. C **65**, 055801/1-6 (2002)

Centrality Dependence of the Charged Particle Multiplicity Near Midrapidity in Au + Au Collisions at $\sqrt{s_{NN}} = 130$ and 200 GeV

B. B. Back *et al.* (PHOBOS Collaboration)
Phys. Rev. C **65**, 061901(R)/1-4 (2002)

$T=0$ and $T=1$ States in the Odd-Odd $N=Z$ Nucleus, $^{70}_{35}\text{Br}$

D. G. Jenkins, N. S. Kelsall, C. J. Lister, D. P. Balamuth, M. P. Carpenter, T. A. Sienko, S. M. Fischer, R. M. Clark, P. Fallon, A. Görzen, A. O. Macchiavelli, C. E. Svensson, R. Wadsworth, W. Reviol, D. G. Sarantites, G. C. Ball, J. Rikovska Stone, O. Juillet, P. Van Isacker, A. V. Afanasjev, and S. Frauendorf
Phys. Rev. C **65**, 064307/1-16 (2002)

Breakup Time Scale Studied in the 8 GeV/ $c\pi$ + ^{197}Au Reaction

L. Pienkowski, K. Kwiatkowski, T. Lefort, W.-c. Hsi, L. Beaulieu, V. E. Viola, A. Botvina, R. G. Korteling, R. Laforest, E. Martin, E. Ramakrishnan, D. Rowland, A. Ruangma, E. Winchester, S. J. Yennello, B. Back, H. Breuer, S. Gushue, and L. P. Remsberg
Phys. Rev. C **65**, 064606/1-8 (2002)

Confirmation of Triple Shape Coexistence in ^{107}Hg : Focal Plane Spectroscopy of the α Decay of ^{183}Pb

D. G. Jenkins, A. N. Andreyev, R. D. Page, M. P. Carpenter, R. V. F. Janssens, C. J. Lister, F. G. Kondev, T. Enqvist, P. T. Greenlees, P. M. Jones, R. Julin, S. Juutinen, H. Kettunen, P. Kuusiniemi, M. Leino, A.-P. Leppänen, P. Nieminen, J. Pakarinen, P. Rahkila, J. Uusitalo, C. D. O'Leary, P. Raddon, A. Simons, R. Wadsworth, and D. T. Joss
Phys. Rev. C **66**, 011301(R)/1-5 (2002)

Breakup of the Doubly Magic ^{100}Sn Core

M. Lipoglavšek, C. Baktash, J. Blomqvist, M. P. Carpenter, D. J. Dean, T. Engeland, C. Fahlander, H. Hjorth-Jensen, R. V. F. Janssens, A. Likar, J. Nyberg, E. Osnes, S. D. Paul, A. Piechaczek, D. C. Radford, D. Rudolph, D. Seweryniak, D. G. Sarantites, M. Vencelj, and C.-H. Yu
Phys. Rev. C **66**, 011302(R)/1-5 (2002)

Signature Inversion in Doubly Odd ^{124}La

H. J. Chantler, E. S. Paul, A. J. Boston, M. P. Carpenter, R. Charity, C. J. Chiara, P. T. W. Choy, C. N. Davids, M. Devlin, A. M. Fletcher, D. B. Fossan, D. G. Jenkins, N. S. Kelsall, T. Koike, D. R. LaFosse, P. J. Nolan, D. G. Sarantites, D. Seweryniak, J. F. Smith, K. Starosta, R. Wadsworth, and A. N. Wilson
Phys. Rev. C **66**, 014311/1-16 (2002)

Excitation Energies in ^{22}Mg from the $^{25}\text{Mg}(^3\text{He}, ^6\text{He})^{22}\text{Mg}$ Reaction

J. A. Caggiano, W. Bradfield-Smith, J. P. Greene, R. Lewis, P. D. Parker, K. E. Rehm, and D. W. Visser
Phys. Rev. C **66**, 015804/1-5 (2002)

Observation of Excited States in the Near-Drip-Line Nucleus ^{125}Pr

A. N. Wilson, D. R. LaFosse, J. F. Smith, C. J. Chiara, A. J. Boston, M. P. Carpenter, H. J. Chantler, R. Charity, P. T. W. Choy, M. Devlin, A. M. Fletcher, D. B. Fossan, R. V. F. Janssens, D. G. Jenkins, N. S. Kelsall, F. G. Kondev, T. Koike, E. S. Paul, D. G. Sarantites, D. Seweryniak, K. Starosta, and R. Wadsworth
Phys. Rev. C **66**, 021305(R)/1-5 (2002)

First Observation of ^{109}Te β^+ and Electron Capture Decay to Levels of ^{109}Sb

J. J. Ressler, W. B. Walters, C. N. Davids, D. J. Dean, A. Heinz, M. Hjorth-Jensen, D. Seweryniak, and J. Shergur

Phys. Rev. C **66**, 024308/1-7 (2002)

Evidence for a $1g_{9/2}$ Rotational Band in ^{51}Mn

J. Ekman, D. Rudolph, C. Fahlander, I. Ragnarsson, C. Andreoiu, M. A. Bentley, M. P. Carpenter, R. J. Charity, R. M. Clark, M. Cromaz, P. Fallon, E. Ideguchi, A. O. Macchiavelli, M. N. Mineva, W. Reviol, D. G. Sarantites, D. Seweryniak, V. Tomov, and S. J. Williams

Phys. Rev. C **66**, 051301(R)/1-5 (2002)

Population of the 168-keV ($g_{7/2}$) Excited State in ^{103}Sn in the α Decay of ^{107}Te

D. Seweryniak, W. B. Walters, A. Woehr, M. Lipoglavsek, J. Shergur, C. N. Davids, A. Heinz, and J. J. Ressler

Phys. Rev. C **66**, 051307(R)/1-4 (2002)

Proton Emission in Au + Au Collisions at 6, 8, 10.8 GeV/Nucleon

B. B. Back, R. R. Betts, J. Chang, W. C. Chang, C. Y. Chi, Y. Y. Chu, J. B. Cumming, J. C. Dunlop, W. Eldredge, S. Y. Fung, R. Ganz, E. Garcia, A. Gillitzer, G. Heintzelman, W. F. Henning, D. J. Hofman, B. Holzman, J. H. Kang, E. J. Kim, S. Y. Kim, Y. Kwon, D. McLeod, A. C. Mignerey, M. Moulson, V. Nanal, C. A. Ogilvie, R. Pak, A. Ruangma, D. E. Russ, R. K. Seto, P. J. Stanskas, G. S. F. Stephans, H. Q. Wang, F. L. H. Wolfs, A. H. Wuosmaa, H. Xiang, G. H. Xu, H. B. Yao, and C. M. Zou (E917 Collaboration)

Phys. Rev. C **66**, 054901/1-10 (2002)

Rotational Band Structures in $N = 89$ ^{153}Gd

T. B. Brown, M. A. Riley, D. Campbell, D. J. Hartley, F. G. Kondev, J. Pfohl, R. V. F. Janssens, S. M. Fischer, D. Nisius, P. Fallon, W. C. Ma, J. Simpson, and J. F. Sharpey-Schafer

Phys. Rev. C **66**, 064320/1-13 (2002)

The 3rd International Conference on Exotic Nuclei and Atomic Masses (ENAM2001)

C. N. Davids

Nuclear Physics News **12**, 14-15 (2002)

A New Technique for Measuring g Factors of Excited States in Fission Fragments Using Large Arrays of Ge Detectors

D. Patel, A. G. Smith, G. S. Simpson, R. M. Wall, J. F. Smith, O. J. Onakanmi, I. Ahmad, J. P. Greene, M. P. Carpenter, T. Lauritsen, C. J. Lister, R. V. F. Janssens, F. G. Kondev, D. Seweryniak, B. J. P. Gall, O. Dorveaux, and B. Roux

J. Phys. G **28**, 649-663 (2002)

High-Resolution In-Beam Particle Spectroscopy - New Results on Prompt Proton Emission from ^{58}Cu

D. Rudolph, D. G. Sarantites, C. Andreoiu, C. Fahlander, D. P. Balamuth, R. J. Charity, M. Devlin, J. Eberth, A. Galindo-Uribarri, P. A. Hausladen, D. Seweryniak, L. G. Sobotka, and Th. Steinhardt

Eur. Phys. J. A **14**, 137-146 (2002)

Evolution of Shapes in ^{59}Cu

C. Andreoiu, D. Rudolph, I. Ragnarsson, C. Fahlander, R. A. E. Austin, M. P. Carpenter, R. M. Clark, J. Ekman, R. V. F. Janssens, T. L. Khoo, F. G. Kondev, T. Lauritsen, T. Rodinger, D. G. Sarantites, D. Seweryniak, T. Steinhardt, C. E. Svensson, O. Thelen, and J. C. Waddington

Eur. Phys. J. A **14**, 317-348 (2002)

The Neutron and Proton Two-Particle Nucleus ^{134}Sb : New Low-Spin States Observed in the Decay of ^{134}Sn and an Estimate of the Energy of the 7^- Isomer

A. Korgul, H. Mach, B. Fogelberg, W. Urban, W. Kurcewicz, T. Rzaca-Urban, P. Hoff, H. Gausemel, J. Galy, J. L. Durell, W. R. Phillips, A. G. Smith, B. J. Varley, N. Schulz, I. Ahmad, L. R. Morss, M. Górska, V. I. Isakov, K. I. Erokhina, J. Blomqvist, F. Andreozzi, F. Coraggio, A. Covello, and A. Gargano

Eur. Phys. J. A **15**, 181-184 (2002)

First Results from the PHOBOS Experiment at RHIC

Gunther Roland (for the PHOBOS Collaboration)

Proceedings of the 15th International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (QM 2001), Long Island, NY, January 15-20, 2001; Nucl. Phys. **A698**, 54c-63c (2002)

$dN_{ch}/d\eta$ Distributions from PHOBOS

A. H. Wuosmaa (for the PHOBOS Collaboration)

Proceedings of the 15th International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (QM 2001), Long Island, NY, January 15-20, 2001; Nucl. Phys. **A698**, 88c-93c (2002)

The PHOBOS Detector at RHIC

Robert Pak (for the PHOBOS Collaboration)

Proceedings of the 15th International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (QM 2001), Long Island, NY, January 15-20, 2001; Nucl. Phys. **A698**, 416c-419c (2002)

Determination of the Collision Geometry and Measurement of the Centrality Dependence of $dN/d\eta$ at Midrapidity

Judith M. Katzy (for the PHOBOS Collaboration)

Proceedings of the 15th International Conference on Ultrarelativistic Nucleus-Nucleus Collisions (QM 2001), Long Island, NY, January 15-20, 2001; Nucl. Phys. **A698**, 555c-558c (2002)

Charged Particle Flow Measurement for $|\eta| < 5.3$ with the PHOBOS Detector

Inkyu Park (for the PHOBOS Collaboration)

Proceedings of the 15th International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (QM 2001), Long Island, NY, January 15-20, 2001; Nucl. Phys. **A698**, 564c-570c (2002)

First Results from the PHOBOS Spectrometer

Nigel George (for the PHOBOS Collaboration)

Proceedings of the 15th International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (QM 2001), Long Island, NY, January 15-20, 2001; Nucl. Phys. **A698**, 655c-658c (2002)

A Kinematically Complete Measurement of the Coulomb Dissociation of ${}^8\text{B}$

B. Davids, D. W. Anthony, T. Aumann, Sam M. Austin, T. Baumann, D. Bazin, R. R. C. Clement, P. A. Lofy, T. Nakamura, B. M. Sherrill, J. Yurkon, C. N. Davids, and H. Esbensen

Proceedings of the 5th International Conference on Radioactive Nuclear Beams (RNB-5), Divonne, France, April 3-8, 2000; Nucl. Phys. **A701**, 14c-17c (2002)

Performance of the PHOBOS Silicon Sensors

M. P. Decowski, B. B. Back, M. D. Baker, D. S. Barton, R. R. Betts, R. Bindel, A. Budzanowski, W. Busza, A. Carroll, E. Garcia, N. George, K. Gulbrandsen, S. Gushue, C. Halliwell, J. Hamblen, G. A. Heintzelman, C. Henderson, R. Holyński, D. J. Hofman, B. Holzman, E. Johnson, J. L. Kane, J. Katzy, N. Khan, W. Kucewicz, P. Kulinich, W. T. Lin, S. Manly, D. McLeod, J. Michalowski, A. C. Mignerey, J. Mülmenstädt, R. Nouicer, A. Olszewski, R. Pak, I. C. Park, H. Pernegger, C. Reed, L. P. Remsberg, M. Reuter, C. Roland, G. Roland, L. Rosenberg, P. Sarin, P. Sawicki, W. Skulski, S. G. Steadman, G. S. F. Stephans, P. Steinberg, M. Stodulski, A. Sukhanov, J.-L. Tang, R. Teng, A. Trzupek, C. Vale, G. J. van Nieuwenhuizen, R. Verdier, B. Wadsworth, F. L. H. Wolfs, B. Wosiek, K. Woźniak, A. H. Wuosmaa, and B. Wyslouch

Proceedings of the 9th International Vienna Conference on Instrumentation, Vienna, Austria, February 19-23, 2001; Nucl. Instrum. Methods **A478**, 299-302 (2002)

Preparation of Isotopic Ruthenium Targets Using an Ion Beam Sputtering Source

John P. Greene

Proceedings of the 20th World Conference of the International Nuclear Target Development Society (INTDS), Antwerp, Belgium, October 2-6, 2000; Nucl. Instrum. Methods **A480**, 119-123 (2002)

Results from the PHOBOS Experiment at RHIC

B. B. Back (for the PHOBOS Collaboration)

Proceedings of the 17th Winter Workshop on Nuclear Dynamics, Park City, UT, March 10-17, 2001; Acta Phys. Hung. **15**, 225-235 (2002)

Structure and Spectroscopy of Transcurium Nuclei

I. Ahmad

Proceedings of the 2nd International Symposium on Advanced Science Research (ASR2001), Tokai, Ibaraki, Japan, November, 13-15, 2001; Journal of Nuclear and Radiochemical Sciences **3**, 179-182 (2002)

Specific Heat and Latent Heat in Finite and Infinite One-Component Plasmas

J. P. Schiffer

Proceedings of the 2001 Workshop on Non-Neutral Plasmas, San Diego, CA, July 30-August 2, 2001, AIP Conference Proceedings **606**, 127-134 (2002)

Possible Triaxial Superdeformation in ^{174}Hf

D. J. Hartley, M. Djongolov, L. L. Riedinger, F. G. Kondev, R. V. F. Janssens, K. Abu Saleem, I. Ahmad, D. L. Balabanski, M. P. Carpenter, P. Chowdhury, D. M. Cullen, M. Danchev, G. D. Dracoulis, H. El-Masri, J. Goon, A. Heinz, R. A. Kaye, T. L. Khoo, T. Lauritsen, C. J. Lister, E. F. Moore, M. A. Riley, D. Seweryniak, I. Shestakova, G. Sletten, P. M. Walker, C. Wheldon, I. Wiedenhöver, O. Zeidan, and Jing-ye Zhang
Proceedings of the International Conference on Nuclear Structure, Grand Teton National Park, WY, May 22-25, 2002, eds. Ani Aprahamian, Jolie A. Cizewski, Stuart Pittel, and N. Victor Zamfir, AIP Conference Proceedings **638**, 119-123 (2002)

Octupole Effects at Super and Normal Deformation

R. V. F. Janssens

Proceedings of the International Conference on Nuclear Structure, Grand Teton National Park, WY, May 22-25, 2002, eds. Ani Aprahamian, Jolie A. Cizewski, Stuart Pittel, and N. Victor Zamfir,
AIP Conference Proceedings **638**, 205-212 (2002)

Recoil Separators

Cary N. Davids

14th International Conference on Electromagnetic Isotope Separators and Techniques Related to Their Applications (EMIS-14), Victoria, B.C., Canada, May 6-10, 2002, Book of Abstracts, p. 7 (2002)

Improvements in the Injection System of the Canadian Penning Trap Mass Spectrometer

J. Clark, R. C. Barber, K. S. Sharma, J. Vaz, J. C. Wang, C. Boudreau, F. Buchinger, J. E. Crawford, S. Gulick, J. K. P. Lee, R. B. Moore, J. C. Hardy, J. A. Caggiano, A. Heinz, G. Savard, D. Seweryniak, and G. Sprouse

14th International Conference on Electromagnetic Isotope Separators and Techniques Related to Their Applications (EMIS-14), Victoria, B.C., Canada, May 6-10, 2002, Book of Abstracts, p. 117 (2002)

Counting ^{44}Ti Nuclei from the $^{40}\text{Ca}(\alpha,\gamma)^{44}\text{Ti}$ Reaction

M. Paul, C. Feldstein, I. Ahmad, D. Berkovits, C. Bordeanu, J. Caggiano, J. Goerres, J. Greene, M. Hass, A. Heinz, D. Henderson, S. K. Hui, R. V. F. Janssens, C. L. Jiang, S. Jiang, R. C. Pardo, T. Pennington, K. E. Rehm, G. Savard, G. Verri, R. Vondrasek, I. Wiedenhöver, and M. Wiescher

7th International Symposium on Nuclei in the Cosmos VII, Fuji-Yoshida, Japan, July 8-12, 2002, Book of Abstracts, p. 43 (2002)

High Energy Photons from Very Symmetric Reactions: The Giant Dipole Resonance in the Highly Rotating ^{179}Au Nucleus

F. Camera, A. Bracco, F. Della Vedova, S. Leoni, S. Mantovani, B. Million, M. Pignanelli, O. Wieland, M. Carpenter, V. Nanal, D. Hofman, B. B. Back, F. G. Kondev, T. L. Khoo, C. J. Lister, A. M. Heinz, R. V. F. Janssens, D. Jenkins, T. Lauritsen, E. F. Moore, D. Seweryniak, M. Thoennessen, R. Varner, I. Dioszegi, and A. Lopez-Martens

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 5 (2002)

Shape Co-Existence at the Outer Edges of Stability

M. P. Carpenter, F. G. Kondev, R. V. F. Janssens, K. Abu Saleem, I. Ahmad, M. Alcorta, H. Amro, J. Caggiano, J. A. Cizewski, M. Danchev, C. N. Davids, D. J. Hartley, A. Heinz, B. Herskind, D. G. Jenkins, T. L. Khoo, T. Lauritsen, C. J. Lister, W. C. Ma, G. L. Poli, P. Reiter, J. Ressler, W. Reviol, L. L. Riedinger, D. G. Sarantites, D. Seweryniak, S. Siem, M. B. Smith, A. A. Sonzogni, P. G. Varmette, and I. Wiedenhöver

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 6 (2002)

Very Extended Shapes in ^{108}Cd

A. Görgen, R. M. Clark, P. Fallon, M. Cromaz, M. A. Deleplanque, R. M. Diamond, G. J. Lane, I. Y. Lee, A. O. Macchiavelli, R. G. Ramos, F. S. Stephens, C. E. Svensson, K. Vetter, D. Ward, M. P. Carpenter, R. V. F. Janssens, and R. Wadsworth

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 19 (2002)

Insights into the Origin of Nuclear Molecules from Studies of the Heavy Ion Radiative Capture Reaction

D. G. Jenkins, C. J. Lister, B. Truett, R. V. F. Janssens, T. L. Khoo, A. Wuosmaa, B. R. Fulton, J. Pearson, M. Freer, R. M. Clark, P. Fallon, A. Görgen, and A. O. Macchiavelli

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 27 (2002)

Narrow Spreading Widths of Excited Bands in a Superdeformed Well

A. Lopez-Martens, T. L. Khoo, I. Calderin, T. Dossing, B. Herskind, T. Lauritsen, M. Matsuo, K. Yoshida, D. Ackermann, S. Asztalos, D. J. Blumenthal, I. Ahmad, H. Amro, M. P. Carpenter, R. M. Clark, M. A. Deleplanque, R. M. Diamond, P. Fallon, S. M. Fischer, G. Hackman, F. Hannachi, R. V. F. Janssens, A. Korichi, R. Krücken, I. Y. Lee, A. O. Macchiavelli, R. W. MacLeod, D. Nisius, G. D. Schmid, F. S. Stephens, and K. Vetter
 Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002,
 LBNL-50598 Abs., Book of Abstracts, p. 29 (2002)

Linking of Yrast and Excite Superdeformed Bands in $^{152}_{66}\text{Dy}$

T. Lauritsen, M. P. Carpenter, T. Dossing, P. Fallon, B. Herskind, R. V. F. Janssens, D. G. Jenkins, T. L. Khoo, F. G. Kondev, A. Lopez-Martens, A. O. Macchiavelli, D. Ward, K. S. Abu Saleem, I. Ahmad, R. Clark, M. Cromaz, J. P. Greene, F. Hannachi, A. M. Heinz, A. Korichi, G. Lane, C. J. Lister, P. Reiter, D. Seweryniak, S. Siem, R. C. Vondrasek, and I. Wiedenhöver

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002,
 LBNL-50598 Abs., Book of Abstracts, p. 33 (2002)

Low Level Density in Odd-Odd $N = Z$ in the $A \sim 70$ Region

C. J. Lister, D. G. Jenkins, S. M. Fischer, D. P. Balamuth, and J. Rikovska Stone
 Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002,
 LBNL-50598 Abs., Book of Abstracts, p. 35 (2002)

Possible Triaxial Superdeformed Bands in ^{174}Hf

M. Djongolov, D. J. Hartley, L. L. Riedinger, F. G. Kondev, R. V. F. Janssens, E. F. Moore, K. Abu Saleem, I. Ahmad, D. L. Balabanski, M. P. Carpenter, P. Chowdhury, D. M. Cullen, M. Danchev, G. D. Dracoulis, H. El-Masri, J. Goon, A. Heinz, R. A. Kaye, T. L. Khoo, T. Lauritsen, C. J. Lister, M. A. Riley, D. Seweryniak, I. Shestakova, G. Sletten, P. M. Walker, C. Wheldon, I. Wiedhoefer, and O. Zeidan

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002,
 LBNL-50598 Abs., Book of Abstracts, p. 48 (2002)

Proton Decay Studies at ATLAS

C. N. Davids, D. Seweryniak, P. J. Woods, T. Davinson, A. Heinz, H. Mahmud, P. Munro, J. J. Ressler, J. Shergur, W. B. Walters, and A. Woehr
 Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002,
 LBNL-50598 Abs., Book of Abstracts, p. 51 (2002)

Limits of the Energy-Spin Phase Space Beyond the Proton Drip Line: Entry Distributions of Pt and Au Isobars

M. B. Smith, J. A. Cizewski, M. P. Carpenter, F. G. Kondev, T. L. Khoo, T. Lauritsen, R. V. F. Janssens, K. Abu Saleem, I. Ahmad, H. Amro, M. Danchev, C. N. Davids, D. J. Hartley, A. Heinz, C. J. Lister, W. C. Ma, G. L. Poli, J. J. Ressler, W. Reviol, L. L. Riedinger, D. Seweryniak, and I. Wiedenhöver

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002,
 LBNL-50598 Abs., Book of Abstracts, p. 54 (2002)

High Spin Studies of N ~ Z Nuclei in the Mass 70 Region

N. S. Kelsall, C. E. Svensson, S. Fischer, D. E. Appelbe, R. A. E. Austin, D. P. Balamuth, G. C. Ball, J. A. Cameron, M. P. Carpenter, R. M. Clark, M. Cromaz, M. A. Deleplanque, R. M. Diamond, J. L. Durell, P. Fallon, S. J. Freeman, P. A. Hausladen, D. F. Hodgson, R. V. F. Janssens, D. G. Jenkins, G. J. Lane, M. J. Leddy, C. J. Lister, A. O. Macchiavelli, C. D. O'Leary, D. G. Sarantites, F. S. Stephens, D. C. Schmidt, D. Seweryniak, B. J. Varley, S. Vincent, K. Vetter, J. C. Waddington, R. Wadsworth, D. Ward, A. N. Wilson, A. V. Afanasjev, S. Frauendorf, I. Ragnarsson, and R. Wyss

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002,
LBNL-50598 Abs., Book of Abstracts, p. 62 (2002)

Coulomb Excitation and Few Nucleon Transfer Reactions with ^{209}Bi Beams on ^{237}Np and ^{241}Am Targets

K. Abu Saleem, R. V. F. Janssens, M. P. Carpenter, F. G. Kondev, I. Wiedenhöver, G. Hackman, I. Ahmad, J. P. Greene, J. Caggiano, P. Chowdhury, D. Cline, A. Heinz, T. L. Khoo, T. Lauritsen, C. J. Lister, A. O. Macchiavelli, D. Seweryniak, and A. Sonzogni
Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002,
LBNL-50598 Abs., Book of Abstracts, p. 65 (2002)

High Spin States in ^{38}Ar

R. A. E. Austin, D. E. Appelbe, G. C. Ball, M. P. Carpenter, R. M. Clark, M. Cromaz, R. V. F. Janssens, A. O. Macchiavelli, D. Rudolph, D. G. Sarantites, C. E. Svensson, and J. C. Waddington

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002,
LBNL-50598 Abs., Book of Abstracts, p. 68 (2002)

Dramatic Structure Changes Along the Yrast Line in ^{160}Yb

D. B. Campbell, M. A. Riley, J. Simpson, A. Pipidis, C. Chandler, J. Lisle, M. A. Bentley, F. G. Kondev, L. L. Riedinger, D. E. Hartley, P. Fallon, R. Clark, D. C. Radford, I. Ragnarsson, and A. Afanasjev

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002,
LBNL-50598 Abs., Book of Abstracts, p. 75 (2002)

Signature Inversion in Doubly Odd ^{124}La

H. J. Chantler, E. S. Paul, A. J. Boston, M. P. Carpenter, R. Charity, C. J. Chiara, P. T. W. Choy, C. N. Davids, M. Devlin, A. M. Fletcher, D. B. Fossan, D. G. Jenkins, N. S. Kelsall, T. Koike, D. R. LaFosse, P. J. Nolan, D. G. Sarantites, D. Seweryniak, J. F. Smith, K. Starosta, R. Wadsworth, and A. N. Wilson

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002,
LBNL-50598 Abs., Book of Abstracts, p. 81 (2002)

Measurement of B(M1)-Values in the Band Crossing Region of Shears Band 1 in ^{197}Pb and Their Interpretation in the Semi-Classical Model

J. R. Cooper, R. Krucken, C. W. Beausang, J. R. Novak, P. von Brentano, A. Dewald, G. Kemper, T. Klug, M. P. Carpenter, R. V. F. Janssens, T. Lauritsen, I. Wiedenhöver, R. M. Clark, and A. O. Macchiavelli

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 82 (2002)

Identification of Excited States in ^{140}Dy

D. M. Cullen, M. P. Carpenter, C. N. Davids, A. M. Fletcher, S. J. Freeman, R. V. F. Janssens, F. G. Kondev, C. J. Lister, L. K. Pattison, D. Seweryniak, J. F. Smith, A. M. Bruce, K. Abu Saleem, I. Ahmad, A. Heinz, T. L. Khoo, E. F. Moore, G. Mukherjee, C. Wheldon, and A. Woehr

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 85 (2002)

Are np -Pairs Playing a Role in the $A = 46$, $T = 1$ Triplet?

P. E. Garrett, W. E. Ormand, R. W. Bauer, J. A. Becker, L. A. Bernstein, D. Appelbe, J. A. Cameron, M. P. Carpenter, R. V. F. Janssens, C. J. Lister, D. Seweryniak, D. D. Warner, and E. Tavukcu

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 91 (2002)

A Search for Multi-Quasiparticle Isomers in Odd-Mass Nuclei Near A ~130

F. G. Kondev, D. J. Hartley, G. D. Dracoulis, R. A. Bark, A. P. Byrne, M. P. Carpenter, J. C. Hazel, R. V. F. Janssens, T. Kibedi, G. J. Lane, L. L. Riedinger, and A. N. Wilson
Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 100 (2002)

Ne, Na and Al Burning in Astrophysically Important (p,γ) Reactions

C. J. Lister, D. G. Jenkins, B. Truett, B. R. Fulton, J. Pearson, M. P. Carpenter, G. Mukherjee, K. E. Rehm, A. H. Wuosmaa, R. A. Kaye, M. Freer, A. O. Macchiavelli, P. Fallon, and A. Gorgen

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 107 (2002)

Coulomb Excitation of Stable Even-Even Xenon Nuclei from $A = 124$ to 134

W. F. Mueller, M. P. Carpenter, J. A. Church, D. C. Dinca, A. Gade, T. Glasmacher, D. T. Henderson, Z. Hu, R. V. F. Janssens, C. J. Lister, P. A. Lofy, K. L. Miller, E. F. Moore, H. Olliver, T. O. Pennington, B. C. Perry, B. T. Roeder, and I. Wiedenhöver

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 114 (2002)

Decay of a High-K Isomer in ^{254}No by γ and Electron Spectroscopy

G. Mukherjee, T. L. Khoo, D. Seweryniak, I. Ahmad, A. Aprahamian, P. Boutachkov, P. A. Butler, M. P. Carpenter, P. Chowdhury, J. A. Cizewski, C. N. Davids, A. Heinz, R. Herzberg, R. V. F. Janssens, G. Jones, R. Julin, F. G. Kondev, T. Lauritsen, M. Leino, C. J. Lister, E. Ngijoi-yogo, P. Reiter, M. Shawcross, M. B. Smith, A. Teymurazyan, J. Uusitalo, and A. Woehr

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 115 (2002)

Identification of the $K\pi = 25^+$ Structure in ^{182}Os

L. K. Pattison, D. M. Cullen, J. F. Smith, A. M. Fletcher, P. M. Walker, H. M. El-Masri, Zs. Podolyák, R. J. Wood, C. Scholey, C. Wheldon, G. Mukherjee, D. Balabanski, M. Djongolov, Th. Dalsgaard, H. Thisgaard, G. Sletten, F. Kondev, D. Jenkins, G. D. Dracoulis, G. J. Lane, I.-Y. Lee, A. O. Macchiavelli, S. Frauendorf, and D. Almehed Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 125 (2002)

High Spin States in ^{114}Xe : Building a Bridge Between the Mass 110 and 130 Regions

E. S. Paul, A. J. Boston, J. P. Carpenter, H. J. Chantler, C. J. Chiara, A. M. Fletcher, D. B. Fossan, R. V. F. Janssens, T. Koike, F. G. Kondev, D. R. LaFosse, J. C. Lisle, P. J. Nolan, D. Patel, W. Revol, D. G. Sarantites, D. Seweryniak, J. F. Smith, K. Starosta, R. Wadsworth, A. N. Wilson, and I. Ragnarsson

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 126 (2002)

Mirror Symmetry in $^{53}_{27}\text{Co}_{26}$ and $^{53}_{27}\text{Fe}_{27}$

S. J. Williams, M. A. Bentley, J. Ekman, D. T. Joss, C. D. O'Leary, D. Rudolph, D. D. Warner, C. Andriou, A. M. Bruce, J. A. Cameron, M. P. Carpenter, R. M. Clark, C. Fahlander, P. Fallon, L. Frankland, W. Gelletly, E. Ideguchi, C. J. Lister, A. O. Macchiavelli, G. Martínez-Pinedo, M. N. Mineva, A. Poves, P. H. Regan, P. Reiter, W. Revol, B. Rubio, J. Sanchez-Solano, D. G. Sarantites, D. Seweryniak, C. Svensson, and S. M. Vincent

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 143 (2002)

Candidate Chiral Bands in the Odd-A Nucleus ^{135}Nd

S. Zhu, U. Garg, B. K. Nayak, S. Frauendorf, S. S. Ghugre, N. S. Pattabhiraman, D. B. Fossan, K. Starosta, C. Vaman, A. O. Macchiavelli, R. V. F. Janssens, and R. S. Chakrawarthy

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 148 (2002)

New Theoretical Results on the Proton Decay of Deformed and Near-Spherical Nuclei

Cary N. Davids and Henning Esbensen

Proceedings of the Conference on Exotic Nuclei at the Proton Drip Line, Camerino, Italy,
September 25-28, 2001, eds. C. M. Petrache and G. Lo Bianco, pp. 101-111 (2002)

Identification of Excited States in ^{140}Dy

M. P. Carpenter, C. N. Davids, R. V. F. Janssens, F. G. Kondev, C. J. Lister, D. Seweryniak,
K. Abu Saleem, I. Ahmad, A. Heinz, T. L. Khoo, E. F. Moore, D. M. Cullen, A. M. Fletcher,
S. J. Freeman, L. K. Pattison, J. F. Smith, A. M. Bruce, G. Mukherjee, C. Wheldon, and
A. Woehr

April 2002 Meeting of the American Physical Society, Albuquerque, NM, April 20-23,
2002; Bull. Am. Phys. Soc. **47**, 70 (2002)

High-K Bands at High Spin in ^{174}Hf

D. J. Hartley, L. L. Riedinger, M. Djongolov, D. Balabanski, M. Danchev, J. Goon, O. Zeidan,
F. G. Kondev, R. V. F. Janssens, K. Abu Saleem, I. Ahmad, M. P. Carpenter, A. Heinz,
T. L. Khoo, T. Lauritsen, C. J. Lister, D. Seweryniak, I. Wiedenhöver, G. D. Dracoulis,
P. Chowdhury, I. Shestakova, D. M. Cullen, C. Wheldon, P. M. Walker, H. El-Masri,
M. A. Riley, R. A. Kaye, and G. Sletten

April 2002 Meeting of the American Physical Society, Albuquerque, NM, April 20-23,
2002; Bull. Am. Phys. Soc. **47**, 71 (2002)

Triaxial Superdeformed Bands in ^{174}Hf

M. Djongolov, D. J. Hartley, L. L. Riedinger, D. L. Balabanski, M. Danchev, J. Goon,
O. Zeidan, F. G. Kondev, R. V. F. Janssens, K. Abu Saleem, I. Ahmad, M. P. Carpenter,
A. Heinz, T. L. Khoo, T. Lauritsen, C. J. Lister, D. Seweryniak, I. Wiedenhöver,
P. Chowdhury, I. Shestakova, D. M. Cullen, C. Wheldon, G. D. Dracoulis, H. El-Masri,
P. M. Walker, R. A. Kaye, M. A. Riley, and G. Sletten

April 2002 Meeting of the American Physical Society, Albuquerque, NM, April 20-23,
2002; Bull. Am. Phys. Soc. **47**, 71 (2002)

Evidence of Fine Structure a Peaks in $^{174,176}\text{Au}$

J. Tm. Goon, D. J. Hartley, M. Danchev, L. L. Riedinger, O. Zeidan, F. G. Kondev,
M. P. Carpenter, R. V. F. Janssens, K. H. Abu Saleem, I. Ahmad, C. N. Davids, A. Heinz,
T. L. Khoo, T. Lauritsen, C. J. Lister, G. L. Poli, J. Ressler, D. Seweryniak, I. Wiedenhöver,
W. C. Ma, H. Amro, W. Reviol, J. A. Cizewski, and M. Smith

April 2002 Meeting of the American Physical Society, Albuquerque, NM, April 20-23,
2002; Bull. Am. Phys. Soc. **47**, 71 (2002)

Production and Decay of ^{257}Rf

A. Heinz, R. V. F. Janssens, D. Seweryniak, K. Abu Saleem, B. Back, M. P. Carpenter,
C. N. Davids, J. P. Greene, D. J. Henderson, C.-L. Jiang, T. L. Khoo, F. G. Kondev,
T. Lauritsen, C. J. Lister, E. F. Moore, R. C. Pardo, T. Pennington, G. Savard, J. P. Schiffer,
A. Woehr, J. Shergur, P. Collon, and M. B. Smith

April 2002 Meeting of the American Physical Society, Albuquerque, NM, April 20-23,
2002; Bull. Am. Phys. Soc. **47**, 72 (2002)

High Spin States in ^{237}Np and ^{241}Am

K. Abu Saleem, R. V. F. Janssens, F. G. Kondev, I. Ahmad, J. Caggiano, M. P. Carpenter, J. P. Greene, A. Heinz, T. L. Khoo, T. Lauritsen, C. J. Lister, D. Seweryniak, I. Wiedenhöver, G. Hackman, P. Chowdhury, D. Cline, C. Wun, M. Devlin, N. Fotiades, E. H. Seabury, and A. O. Macchiavelli

April 2002 Meeting of the American Physical Society, Albuquerque, NM, April 20-23, 2002; Bull. Am. Phys. Soc. **47**, 72 (2002)

Excited Rotational! Structure with a Very Extended Shape in ^{108}Cd

A. Görzen, R. M. Clark, P. Fallon, M. Cromaz, M. A. Deleplanque, R. M. Diamond, G. J. Lane, I. Y. Lee, A. O. Macchiavelli, R. G. Ramos, F. S. Stephens, C. E. Svensson, K. Vetter, D. Ward, M. P. Carpenter, R. V. F. Janssens, and R. Wadsworth

April 2002 Meting of the American Physical Society, Albuquerque, NM, April 20-23, 2002; Bull. Am. Phys. Soc. **47**, 73 (2002)

Neutron-Proton Correlations in $A \sim 80$, $N \sim Z$ Nuclei

S. M. Fischer

April 2002 Meting of the American Physical Society, Albuquerque, NM, April 20-23, 2002; Bull. Am. Phys. Soc. **47**, 117 (2002)

Mass Measurement of ^{68}Se Using the Beta End-Point Method

Mark Shawcross, Arthur Teymurazyan, Ani Aprahamian, Plamen Boutachkov, Irena Zartova, Jose L. Galache, Joachim Goerres, Michael Wiescher, Darek Seweryniak, Andreas Woehr, Robert Janssens, Cary Davids, Andreas Heinz, Daeg Brenner, and Susan M. Fischer

April 2002 Meting of the American Physical Society, Albuquerque, NM, April 20-23, 2002; Bull. Am. Phys. Soc. **47**, 118 (2002)

Deformed Structures in the Vicinity of $^{40}_{20}\text{Ca}_{20}$

C. J. Chiara, E. Ideguchi, M. Devlin, F. Lerma, W. Reviol, S. K. Ryu, D. G. Sarantites, J. N. Wilson, C. Baktash, A. Galindo-Uribarri, D. Rudolph, D. R. Lafosse, M. P. Carpenter, R. V. F. Janssens, T. Lauritsen, C. J. Lister, P. Reiter, D. Seweryniak, P. Fallon, A. Görzen, and A. O. Macchiavelli

April 2002 Meeting of the American Physical Society, Albuquerque, NM, April 20-23, 2002; Bull. Am. Phys. Soc. **47**, 118 (2002)

Spectroscopy of the $N = Z$ Nucleus ^{46}V

P. E. Garrett, W. E. Ormand, R. W. Bauer, J. A. Becker, L. A. Bernstein, D. Appelbe, J. A. Cameron, M. Carpenter, R. V. F. Janssens, C. J. Lister, D. Seweryniak, D. D. Warner, and E. Tavukcu

April 2002 Meeting of the American Physical Society, Albuquerque, NM, April 20-23, 2002; Bull. Am. Phys. Soc. **47**, 119 (2002)

Measurement of the ${}^8\text{B}$ Neutrino Spectrum with a New Technique

W. T. Winter, K. E. Rehm, C. L. Jiang, I. Ahmad, S. J. Freedman, J. Greene, A. Heinz, D. Henderson, R. V. F. Janssens, E. F. Moore, G. Mukherjee, R. C. Pardo, M. Paul, T. Pennington, G. Savard, J. P. Schiffer, D. Seweryniak, and G. Zinkann

April 2002 Meeting of the American Physical Society, Albuquerque, NM, April 20-23, 2002; Bull. Am. Phys. Soc. **47**, 151 (2002)

Pushing Towards the Sensitivity Limits of Gammasphere

C. J. (Kim) Lister

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 11 (2002)

Precision Mass Measurements Along the rp- and r-Process Paths

Guy Savard

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 12 (2002)

Collectivity in the Neutron-Rich Nuclei ${}^{34}\text{Mg}$, ${}^{35,36}\text{Al}$, and ${}^{37}\text{Si}$

J. A. Church, C. M. Campbell, D.-C. Dinca, J. Enders, T. Glasmacher, Z. Hu, K. L. Miller, W. F. Mueller, H. Olliver, B. C. Perry, M. Steiner, and A. Stolz

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 23 (2002)

Observation of a Sharp Band Crossing in ${}^{68}\text{Se}$

S. M. Fischer, C. J. Lister, and D. P. Balamuth

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 65 (2002)

First Observation of ${}^{109}\text{Te}$, β^+ and EC Decay to Levels in ${}^{109}\text{Sb}$

Jason Shergur, Jo Ressler, William Walters, Cary Davids, David Dean, Andreas Heinz, Morten Hjorth-Jensen, and Dariusz Seweryniak

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 66 (2002)

The Branching Ratio $\Gamma_\alpha/\Gamma_\gamma$ of the 4.033 MeV State in ${}^{19}\text{F}$

K. E. Rehm, A. H. Wuosmaa, C. L. Jiang, J. Greene, A. Heinz, D. Henderson, R. V. F. Janssens, E. F. Moore, G. Mukherjee, R. C. Pardo, T. Pennington, J. P. Schiffer, R. H. Siemssen, L. Jisonna, R. E. Segel, and M. Paul

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 67 (2002)

Multi-Particle-Gamma-Ray Angular Correlation Measurements in ${}^{12}\text{C} + {}^{12}\text{C}$ Inelastic Scattering

A. H. Wuosmaa, J. Caggiano, M. P. Carpenter, A. Heinz, R. V. F. Janssens, F. G. Kondev, T. Lauritsen, C. J. Lister, I. Wiedenhöver, D. G. Sarantitis, M. Devlin, and L. Sobotka

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 78 (2002)

Structure of $^{52,54}\text{Ti}$ and Shell Closures in Neutron-Rich Nuclei Above ^{48}Ca

R. V. F. Janssens, B. Fornal, P. F. Mantica, B. A. Brown, M. P. Carpenter, F. G. Kondev, T. Lauritsen, D. Seweryniak, I. Wiedenhöver, R. Broda, W. Krolas, T. Pawlat, J. Wrzesinski, A. D. Davies, T. Glasmacher, D. E. Groh, S. N. Liddick, D. J. Morrissey, A. C. Morton, W. F. Mueller, H. Schatz, A. Stoltz, P. Bhattacharyya, P. J. Daly, Z. W. Grabowski, M. Cinausero, N. Marginean, S. Lunardi, C. A. Ur, G. Viesti, M. Honma, T. Mizusaki, T. Otsuka, and S. L. Tabor

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 78 (2002)

Shape Co-Existence in ^{174}Pt

J. Tm. Goon, D. J. Hartley, M. Danchev, L. L. Riedinger, O. Zeidan, F. G Kondev, M. P. Carpenter, R. V. F. Janssens, K. H. Abu Saleem, I. Ahmad, C. N. Davids, A. Heinz, T. L. Khoo, T. Lauritsen, C. J. Lister, G. L. Poli, J. Ressler, D. Seweryniak, I. Wiedenhöver, W. C. Ma, H. Amro, W. Reviol, J. A. Cizewski, and M. Smith

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 79 (2002)

Coulomb Excitation of Even-Even Xenon Nuclei from $A = 124$ to 134

W. F. Mueller, J. A. Church, D. C. Dinca, A. Gade, T. Glasmacher, Z. Hu, P. A. Lofy, K. L. Miller, H. Olliver, B. C. Perry, B. T. Roeder, I. Wiedenhöver, M. P. Carpenter, D. T. Henderson, R. V. F. Janssens, C. J. Lister, E. F. Moore, and T. O. Pennington

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 80 (2002)

Possible Smooth Band Termination in ^{123}LA

H. I. Park, D. J. Hartley, L. L. Riedinger, O. Zeidan, Jing-Ye Zhang, A. Galindo-Uribarri, M. P. Carpenter, R. V. F. Janssens, D. Seweryniak, M. Devlin, W. Reviol, D. G. Sarantites, B. G. Dong, and I. Ragnarsson

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 80 (2002)

Decay of the r-Process Waiting-Point Nuclide ^{130}Cd to Levels of ^{130}In

K.-L. Kratz, I. Dillmann, O. Arndt, M. Hannawald, B. Pfeiffer, A. Ostrowski, A. M. El-Taher, A. Wöhr, J. Shergur, W. B. Waiters, U. Köster, V. Fedoseyev, H. Ravn, D. Seweryniak, P. Hoff, B. A. Brown, and T. Isoldecoll

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 81 (2002)

New Isomer in ^{217}Th Using RDT

G. Mukherjee, T. L. Khoo, D. Seweryniak, I. Ahmad, M. P. Carpenter, C. N. Davids, A. Heinz, R. V. F. Janssens, F. G. Kondev, T. Lauritsen, C. J. Lister, A. Woehr, P. Chowdhury, E. Ngijoi-Yogo, A. Aprahamian, P. Boutachkov, M. Shawcross, A. Teymurazyan, P. A. Butler, R. Herzberg, G. Jones, J. A. Cizewski, M. B. Smith, R. Julin, M. Leino, J. Uusitalo, and P. Reiter

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 82 (2002)

Decay of a 2-qp Isomer in ^{254}No

G. Mukherjee, T. L. Khoo, D. Seweryniak, I. Ahmad, M. P. Carpenter, C. N. Davids, A. Heinz, R. V. F. Janssens, F. G. Kondev, T. Lauritsen, C. J. Lister, A. Woehr, P. Chowdhury, E. Ngijoi-Yogo, A. Aprahamian, P. Boutachkov, M. Shawcross, A. Teymurazyan, P. A. Butler, R. Herzberg, G. Jones, J. A. Cizewski, M. B. Smith, R. Julin, M. Leino, J. Uusitalo, and P. Reiter

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 82 (2002)

Precise Mass Measurement of Neutron-Rich Nuclei from Fission Fragments of ^{252}Cf

J. C. Wang, J. Clark, K. S. Sharma, J. Vaz, J. P. Greene, A. Heinz, G. Savard, D. Seweryniak, Z. Zhou, F. Buchinger, J. E. Crawford, S. Gulick, and J. K. P. Lee

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 82 (2002)

Observation of the GDR in Highly Excited ^{224}Th

J. Seitz, T. Baumann, K. Eisenman, P. Heckman, M. Thoennessen, R. L. Varner, D. J. Hofman, V. Nanal, I. Dioszegi, B. B. Back, M. P. Carpenter, M. P. Kelly, T. L. Khoo, T. Pennington, and R. H. Siemssen

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 83 (2002)

Measurement of the ^8B Neutrino Spectrum

W. T. Winter, I. Ahmad, S. J. Freedman, J. Greene, A. Heinz, D. Henderson, R. V. F. Janssens, C. L. Jiang, E. F. Moore, G. Mukherjee, R. C. Pardo, M. Paul, T. Pennington, K. E. Rehm, G. Savard, J. P. Schiffer, D. Seweryniak, and G. Zinkann

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 84 (2002)

Unexpected Behavior of Heavy-Ion Fusion Cross Sections at Extreme Sub-Barrier Energies

C. L. Jiang, H. Esbensen, K. E. Rehm, B. B. Back, R. V. F. Janssens, J. A. Caggiano, P. Collon, J. Greene, A. M. Heinz, D. J. Henderson, I. Nishinaka, T. O. Pennington, and D. Seweryniak

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 92 (2002)

Study of Effect of the Breakup on the Fusion Cross Section of the System $^{6,7}\text{Li} + ^{59}\text{Co}$

F. A. Souza, M. G. Munhoz, A. Szanto de Toledo, E. E. Alonso, J. Takahashi, E. M. Szanto, N. Aissaoui, R. Liguori Neto, N. Carlin, S. J. Sanders, C. Beck, M. Rousseau, P. Bednarczyk, S. Courtin, F. Haas, F. Hoellinger, N. Kintz, O. Stezowski, S. Szilner, A. Hachem, E. Martin, R. V. F. Janssens, and A. Wuosmaa

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 92 (2002)

Low-K Rotational Structures in ^{174}Hf

M. K. Djongolov, D. J. Hartley, D. L. Balabanski, M. Danchev, J. Tm. Goon, L. L. Riedinger, O. Zeidan, E. F. Moore, R. V. F. Janssens, F. G. Kondev, T. Lauritsen, M. P. Carpenter, C. J. Lister, K. Abu Saleem, I. Ahmad, A. Heinz, T. L. Khoo, D. Seweryniak, I. Wiedenhöver, M. A. Riley, P. Chowdhury, I. Shestakova, R. Kaye, H. El-Masri, P. M. Walker, G. D. Dracoulis, G. Sletten, D. M. Cullen, and C. Wheldon

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 94 (2002)

Coulomb Excitation and Few Nucleon Transfer Reactions with ^{209}Bi Beams on ^{237}Np and ^{241}Am Targets

K. Abu Saleem, R. V. F. Janssens, M. P. Carpenter, F. G. Kondev, I. Ahmad, J. P. Greene, J. Caggiano, A. Heinz, T. L. Khoo, T. Lauritsen, C. J. Lister, D. Seweryniak, A. Sonzogni, I. Wiedenhöver, G. Hackman, P. Chowdhury, D. Cline, C. Wu, A. O. Macchiavelli, M. Devlin, N. Fotiades, and E. H. Seabury

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 94 (2002)

Observation of Candidate Chiral Bands in the Odd-A Nucleus ^{135}Nd

S. Zhu, U. Garg, B. K. Nayak, S. Frauendorf, S. S. Ghugre, N. S. Pattabhiraman, D. B. Fossan, K. Starosta, T. Koike, C. Vaman, A. O. Macchiavelli, R. V. F. Janssens, and R. S. Chakrawarthy

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 94 (2002)

Extending the Region of Triaxial Superdeformation: Candidate TSD Bands in ^{174}Hf

D. J. Hartley, M. Djongolov, L. L. Riedinger, D. L. Balabanski, M. Danchev, J. Goon, O. Zeidan, Jing-Ye Zhang, F. G. Kondev, R. V. F. Janssens, K. Abu Saleem, I. Ahmad, M. P. Carpenter, A. Heinz, T. L. Khoo, T. Lauritsen, C. J. Lister, E. F. Moore, D. Seweryniak, I. Wiedenhöver, M. A. Riley, D. M. Cullen, C. Wheldon, P. Chowdhury, I. Shestakova, G. D. Dracoulis, H. El-Masri, P. M. Walker, R. Kaye, and G. Sletten

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 95 (2002)

A Recoil Separator for Research in Superheavy Element Chemistry

C. N. Davids

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 98 (2002)

**OPERATION AND DEVELOPMENT OF ATLAS
and
R & D RELATED TO A FUTURE RARE ISOTOPE ACCELERATOR FACILITY**

Low Cost Upgrade of 6.4 GHz ECRIS and Recent Results with 14 GHz ECRIS at JYFL

H. Koivisto, P. Heikkinen, E. Liukkonen, J. Ärje, and R. Vondrasek

Proceedings of the 9th International Conference on Ion Sources (ISCIS'01), Oakland, CA,
September 3-7, 2001; Rev. Sci. Instrum. **73**, 534-536 (2002)

Techniques for the Measurement of Ionization Times in ECR Ion Sources Using a Fast Sputter Sample and Fast Gas Valve

R. C. Vondrasek, R. H. Scott, R. C. Pardo, and D. Edgell

Proceedings of the 9th International Conference on Ion Sources (ISCIS'01), Oakland, CA,
September 3-7, 2001; Rev. Sci. Instrum. **73**, 548-551 (2002)

Completion of the ATLAS ECR-I Ion Source Upgrade Project

D. P. Moehs, R. Vondrasek, R. H. Scott, R. C. Pardo, and J. M. Montgomery

Proceedings of the 9th International Conference on Ion Sources (ISCIS'01), Oakland, CA,
September 3-7, 2001; Rev. Sci. Instrum. **73**, 576-579 (2002)

Argon Ionization Cross Sections for Charge State Distribution Modeling in Electron Cyclotron Resonance Ion Source

I. N. Bogatu, D. H. Edgell, J. S. Kim, R. C. Pardo, and R. Vondrasek

Proceedings of the 9th International Conference on Ion Sources (ISCIS'01), Oakland, CA,
September 3-7, 2001; Rev. Sci. Instrum. **73**, 638-640 (2002)

Electron Cyclotron Resonance Ion Source One-Dimensional Fluid Modeling

Dana H. Edgell, Jin-Soo Kim, Ioan N. Bogatu, Richard C. Pardo, and Richard C. Vondrasek

Proceedings of the 9th International Conference on Ion Sources (ISCIS'01), Oakland, CA,
September 3-7, 2001; Rev. Sci. Instrum. **73**, 641-643 (2002)

Modified Electron Cyclotron Resonance Source Design for ${}^3\text{He}$ Accelerator Mass Spectroscopy (Abstract)

R. C. Pardo, D. P. Moehs, R. H. Scott, and R. C. Vondrasek

Proceedings of the 9th International Conference on Ion Sources (ISCIS'01), Oakland, CA,
September 3-7, 2001; Rev. Sci. Instrum. **73**, 887 (2002)

Yield Calculations for a Facility for Short-Lived Nuclear Beams

C. L. Jiang, B. B. Back, I. Gomes, A. M. Heinz, J. Nolen, K. E. Rehm, G. Savard,
and J. P. Schiffer

Nucl. Instrum. Methods **A492**, 57-73 (2002)

Production of Neutron-Rich Isotopes by One- and Two-Step Processes in ISOL Targets

M. Portillo, J. Nolen, I. Gomes, V. N. Panteleev, D. V. Fedorov, A. E. Barzakh,
V. I. Beznosjuk, F. V. Moroz, S. Yu. Orlov, and Yu. M. Volkov

Nucl. Instrum. Methods **B194**, 193-206 (2002)

High-Order Maps with Acceleration for Optimization of Electrostatic and Radio-Frequency Ion-Optical Elements

Andrew A. Geraci, Teresa A. Barlow, Mauricio Portillo, Jerry A. Nolen, Kenneth W. Shepard, Kyoko Makino, and Martin Berz

Rev. Sci. Instrum. **73**, 3174-3180 (2002)

ISOL Beams from Fragmentation: the Best of Both Worlds

G. Savard, J. Schwartz, J. Caggiano, J. P. Greene, A. Heinz, M. Maier, D. Seweryniak, and B. J. Zabransky

Proceedings of the 5th International Conference on Radioactive Nuclear Beams (RNB-5), Divonne, France, April 3-8, 2000; Nucl. Phys. **A701**, 292c-295c (2002)

Liquid-Lithium Cooling for 100-kW ISOL and Fragmentation Targets

J. A. Nolen, C. B. Reed, A. Hassanein, and I. C. Gomes

Proceedings of the 5th International Conference on Radioactive Nuclear Beams (RNB-5), Divonne, France, April 3-8, 2000; Nucl. Phys. **A701**, 312c-322c (2002)

Prospects for Exotic Beam Facilities in North America

J. A. Nolen

Proceedings of the International Symposium on Perspectives in Physics with Radioactive Isotope Beams 2000 (RIB00), Hayama, Kanagawa, Japan, November 13-16, 2000; Eur. Phys. J. A **13**, 255-261 (2002)

Development of Windowless Liquid Lithium Targets for Fragmentation and Fission of 400-kW Uranium Beams

J. A. Nolen, C. B. Reed, A. Hassanein, V. J. Novick, P. Plotkin, and J. R. Specht

14th International Conference on Electromagnetic Isotope Separators and Techniques Related to Their Applications (EMIS-14), Victoria, B.C., Canada, May 6-10, 2002, Book of Abstracts, p. 17 (2002)

An Adjustable Thickness Li/Be Target for Fragmentation of 3-kW Heavy Ion Beams

J. A. Nolen, C. B. Reed, A. Hassanein, V. J. Novick, P. Plotkin, J. R. Specht, D. J. Morrissey, J. H. Ottarson, and B. M. Sherrill

14th International Conference on Electromagnetic Isotope Separators and Techniques Related to Their Applications (EMIS-14), Victoria, B.C., Canada, May 6-10, 2002, Book of Abstracts, p. 18 (2002)

A Post Accelerator for the U. S. Rare Isotope Accelerator Facility

P. N. Ostroumov, M. P. Kelly, A. A. Kolomiets, J. A. Nolen, M. Portillo, and K. W. Shepard

14th International Conference on Electromagnetic Isotope Separators and Techniques Related to Their Applications (EMIS-14), Victoria, B.C., Canada, May 6-10, 2002, Book of Abstracts, p. 31 (2002)

Development and Operation of Gas Catchers to Thermalize Fusion-Evaporation and Fragmentation Products

Guy Savard, A. Heinz, J. P. Greene, D. Seweryniak, B. J. Zabransky, Z. Zhou, J. Clark, K. S. Sharma, J. Vaz, J. C. Wang, C. Boudreau, and the 5258 Collaboration

14th International Conference on Electromagnetic Isotope Separators and Techniques Related to Their Applications (EMIS-14), Victoria, B.C., Canada, May 6-10, 2002, Book of Abstracts, p. 46 (2002)

Status of the R&D for the Rare Isotope Accelerator Project

Guy Savard

14th International Conference on Electromagnetic Isotope Separators and Techniques Related to Their Applications (EMIS-14), Victoria, B.C., Canada, May 6-10, 2002, Book of Abstracts, p. 78 (2002)

Energy and Range Focusing of In-Flight Separated Exotic Nuclei

C. Scheidenberger, H. Geissel, M. Maier, G. Münzenberg, G. Savard, V. Shishkin, H. Weick, M. Winkler, F. Attallah, K.-H. Behr, S. Eliseev, M. Hausmann, M. Hellström, E. Daza, B. Kindler, Y. Litvinov, B. Lommel, G. Marx, M. Matos, N. Nankov, T. Ohtsubo, K. Sümmerer, Z.-Y. Sun, and Z. Zhou

14th International Conference on Electromagnetic Isotope Separators and Techniques Related to Their Applications (EMIS-14), Victoria, B.C., Canada, May 6-10, 2002, Book of Abstracts, p. 80 (2002)

Optimization of ISOL Targets Based on Monte-Carlo Simulation of Ion Release Curves

B. Mustapha and J. A. Nolen

14th International Conference on Electromagnetic Isotope Separators and Techniques Related to Their Applications (EMIS-14), Victoria, B.C., Canada, May 6-10, 2002, Book of Abstracts, p. 96 (2002)

The Rare Isotope Accelerator Project

Guy Savard

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 50 (2002)

Bunch Shape Measurement of CW Heavy-Ion Beam

N. Y. Vinogradov, P. Billquist, P. N. Ostroumov, R. C. Pardo, M. Portillo, S. I. Sharamentov, and G. P. Zinkann

XXI International Linear Accelerator Conference (LINAC2002), Gyeongju, Korea, August 19-23, 2002, Book of Abstracts, p. 61 (2002)

Design Features of High-Intensity Medium-Energy Superconducting Heavy-Ion Linac

P. N. Ostroumov

XXI International Linear Accelerator Conference (LINAC2002), Gyeongju, Korea, August 19-23, 2002, Book of Abstracts, p. 62 (2002)

A New Generation of Superconducting Solenoids for Heavy-Ion Linac Application

P. N. Ostroumov, K. W. Shepard, S. H. Kim, R. E. Laxdal, and R. Wheatley

XXI International Linear Accelerator Conference (LINAC2002), Gyeongju, Korea, August 19-23, 2002, Book of Abstracts, p. 116 (2002)

The U.S. RIA Project

J. Nolen

XXI International Linear Accelerator Conference (LINAC2002), Gyeongju, Korea, August 19-23, 2002, Book of Abstracts, p. 54 (2002)

Preliminary Engineering Design of a 57.5 MHz CW RFQ for the RIA Driver Linac

J. W. Rathke, T. J. Schultheiss, P. N. Ostroumov, A. A. Kolomiets, and D. L. Schrage

XXI International Linear Accelerator Conference (LINAC2002), Gyeongju, Korea, August 19-23, 2002, Book of Abstracts, p. 142 (2002)

RF, Thermal and Structural Analysis of the 57.5 MHz CW RFQ for the RIA Driver Linac

T. J. Schultheiss, J. W. Rathke, P. N. Ostroumov, and A. A. Kolomiets

XXI International Linear Accelerator Conference (LINAC2002), Gyeongju, Korea, August 19-23, 2002, Book of Abstracts, p. 143 (2002)

Minimizing Transverse-Field Effects in Superconducting Quarter-Wave Cavities

P. N. Ostroumov and K. W. Shepard

XXI International Linear Accelerator Conference (LINAC2002), Gyeongju, Korea, August 19-23, 2002, Book of Abstracts, p. 143 (2002)

A Prototype Superconducting 345 MHz Two-Cell Spoke Cavity

K. W. Shepard, M. Kedzie, M. P. Kelly, J. Fuerst, and E. Peterson

XXI International Linear Accelerator Conference (LINAC2002), Gyeongju, Korea, August 19-23, 2002, Book of Abstracts, p. 144 (2002)

Superconducting Drift-Tube Cavity Development for the RIA Driver Linac

K. W. Shepard, M. P. Kelly, and J. Fuerst

XXI International Linear Accelerator Conference (LINAC2002), Gyeongju, Korea, August 19-23, 2002, Book of Abstracts, p. 145 (2002)

MEDIUM-ENERGY NUCLEAR PHYSICS RESEARCH

Single-Spin Azimuthal Asymmetry in Exclusive Electroproduction of π^+ Mesons

A. Airapetian *et al.* (HERMES Collaboration)

Phys. Lett. **B535**, 85-92 (2002)

Measurement of Longitudinal and Transverse Cross Sections in the ${}^3\text{He}(e,e'\pi^+){}^3\text{H}$ Reaction at $W = 1.6 \text{ GeV}$

D. Gaskell **et al.**

Phys. Rev. C **65**, 011001(R)/1-5 (2002)

Polarization Measurements in Neutral Pion Photoproduction

K. Wijesooriya *et al.* (for the Jefferson Lab Hall A Collaboration)

Phys. Rev. C **66**, 034614/1-14 (2002)

High Energy Angular Distribution Measurements of the Exclusive Deuteron Photodisintegration Reaction

E. C. Schulte *et al.* and the JLab Hall A Collaboration

Phys. Rev. C **66**, 042201(R)/1-5 (2002)

Nuclear Transparency from Quasielastic $A(e,e'p)$ Reactions up to $Q^2 = 8.1 \text{ (GeV}/c)^2$

K. Garrow *et al.* (for the JLab E94-139 Collaboration)

Phys. Rev. C **66**, 044613/1-10 (2002)

The HERMES Dual-Radiator Ring Imaging Cerenkov Detector

N. Akopov *et al.* (the HERMES RICH Collaboration)

Nucl. Instrum. Methods **A479**, 511-530 (2002)

HERMES and the Spin on the Proton

H. E. Jackson (on behalf of the HERMES Collaboration)

Int. J. Mod Phys. A **17**, 3551-3570 (2002)

PHY-10444-ME-2002

Transverse Spin: HERMES Results and Future Plans

N. C. R. Makins, for the HERMES Collaboration

Proceedings of the European Workshop on the QCD Structure of the Nucleon, Ferrara, Italy, April 3-6, 2002; Nucl. Phys. **A711**, 41c-49c (2002)

HERMES Results and Future on DVCS and DUES

D. Hasch (on behalf of the HERMES Collaboration)

Proceedings of the European Workshop on the QCD Structure of the Nucleon, Ferrara, Italy, April 3-6, 2002; Nucl. Phys. **A711**, 148c-153c (2002)

Beam-Charge Asymmetry Associated with DVCS at HERMES

F. Ellinghaus (on behalf of the HERMES Collaboration)

Proceedings of the European Workshop on the QCD Structure of the Nucleon, Ferrara, Italy, April 3-6, 2002; Nucl. Phys. **A711**, 171c-174c (2002)

Exclusive Vector Meson Production on Nuclei at HERMES

A. B. Borissov, on behalf of the HERMES Collaboration

Proceedings of the European Workshop on the QCD Structure of the Nucleon, Ferrara, Italy, April 3-6, 2002; Nucl. Phys. **A711**, 269c-273c (2002)Measurement of Polarization Observables in Υ and φ Production with 800 GeV $p + Cu$ CollisionP. E. Reimer *et al.* (FNAL E866 Collaboration)Proceedings of the International Nuclear Physics Conference on Nuclear Physics in the 21st Century (INPC 2001), Berkeley, CA, July 30-August 3, 2001, eds. E. Norman, L. Schroeder, and G. Wozniak, AIP Conference Proceedings **610**, 420-424 (2002)Towards Measuring the Charge Radii of 6He and 8He

P. Müller, L.-B. Wang, K. Bailey, X. Du, J. Greene, A. M. Heinz, R. J. Holt, D. Henderson, R. V. F. Janssens, C.-L. Jiang, C. Law, Z.-T. Lu, I. D. Moore, T. P. O'Connor, R. C. Pardo, T. Pennington, K. E. Rehm, J. P. Schiffer, M. Paul, and G. W. F. Drake

14th International Conference on Electromagnetic Isotope Separators and Techniques Related to Their Applications (EMIS-14), Victoris, B.C., Canada, May 6-10, 2002, Book of Abstracts, p. 43 (2002)

Improvements on Detecting ${}^{81,85}Kr$ with ATTA

P. Müller, X. Du, K. Bailey, Z.-T. Lu, I. D. Moore, T. P. O'Connor, and L. Young

14th International Conference on Electromagnetic Isotope Separators and Techniques Related to Their Applications (EMIS-14), Victoria, B.C., Canada, May 6-10, 2002, Book of Abstracts, p. 44 (2002)

Ultrasensitive Isotope Trace Analysis of ${}^{41}Ca$

I. D. Moore, K. Bailey, Z.-T. Lu, P. Müller, T. P. O'Connor, and L. Young

14th International Conference on Electromagnetic Isotope Separators and Techniques Related to Their Applications (EMIS-14), Victoria, B.C., Canada, May 6-10, 2002, Book of Abstracts, p. 146 (2002)

Single Spin Azimuthal Asymmetry Associated with Deeply Virtual Compton Scattering

James Ely (for the HERMES Collaboration)

April 2002 Meeting of the American Physical Society, Albuquerque, NM, April 20-23, 2002; Bull. Am. Phys. Soc. **47**, 92 (2002)

Flavor Decomposition of Polarized Quark Distributions in the Nucleon

H. E. Jackson *et al.* (on behalf of the HERMES Collaboration)April 2002 Meeting of the American Physical Society, Albuquerque, NM, April 20-23, 2002; Bull. Am. Phys. Soc. **47**, 197 (2002)

Polarization Measurements in π^0 Photoproduction

K. Wijesooriya

April 2002 Meeting of the American Physical Society, Albuquerque, NM, April 20-23, 2002; Bull. Am. Phys. Soc. **47**, 216 (2002)

Do Ordinary Nuclei Contain Exotic States of Matter?

John Arrington

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 17 (2002)

Angular Distribution Measurements of the $d(\gamma,p)n$ Differential Cross Section at High Energies

E. C. Schulte *et al.* for the Hall A Collaboration at JLab

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 25 (2002)

Towards Measuring the Charge Radius of ${}^6\text{He}$

Li-Bang Wang, Peter Mueller, Kevin Bailey, John Greene, Andreas Heinz, Roy Holt, Dale Henderson, Robert Janssens, Cheng-Lie Jiang, Zheng-Tian Lu, Thomas O'Connor, Richard Pardo, Tad Pennington, Karl Rehm, and John Schiffer

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 101 (2002)

THEORETICAL PHYSICS

Quantum Effects with an X-Ray Free Electron Laser

C. D. Roberts, S. M. Schmidt, and D. V. Vinnik

Phys. Rev. Lett. **89**, 153901/1-4 (2002)

Evolution of Nuclear Spectra with Nuclear Forces

R. B. Wiringa and Steven C. Pieper

Phys. Rev. Lett. **89**, 182501/1-4 (2002)

N-P Pairing in Nuclei

R. R. Chasman

Phys. Lett. **B524**, 81-86 (2002)

Weak Transitions in A = 6 and 7 Nuclei

R. Schiavilla and R. B. Wiringa

Phys. Rev. C **64**, 054302/1-13 (2002)

Multipole Expansion for Relativistic Coulomb Excitation

H. Esbensen and C. A. Bertulani

Phys. Rev. C **65**, 024605/1-7 (2002)

Nucleon Resonances with Double Polarization Observables of Pion Photoproduction

D. Dutta, H. Gao, and T.-S. H. Lee

Phys. Rev. C **65**, 044619/1-6 (2002)

η Meson Productions in NN Collisions

K. Nakayama, J. Speth, and T.-S. H. Lee

Phys. Rev. C **65**, 045210/1-12 (2002)

Elastic Scattering and Breakup of ^{17}F at 10 MeV/Nucleon

J. F. Liang, J. R. Beene, H. Esbensen, A. Galindo-Uribarri, J. Gomez del Campo, C. J. Gross,

M. L. Halbert, P. E. Mueller, D. Shapira, D. W. Stracener, I. J. Thompson, and R. L. Varner

Phys. Rev. C **65**, 051603(R)/1-5 (2002)

Nucleon Mass and Pion Loops

M. B. Hecht, C. D. Roberts, M. Oettel, A. W. Thomas, S. M. Schmidt, and P. C. Tandy

Phys. Rev. C **65**, 055204/1-17 (2002)

Bethe-Salpeter Equation and a Nonperturbative Quark-Gluon Vertex

A. Bender, W. Detmold, A. W. Thomas, and C. D. Roberts

Phys. Rev. C **65**, 065203/1-16 (2002)

Effective Lagrangian Approach to the ω Photoproduction Near Threshold
Alexander I. Titov and T.-S. H. Lee
Phys. Rev. C **66**, 015204/1-12 (2002)

Coherent ϕ and ω Meson Photoproduction from Deuteron and Nondiffractive Channels
A. I. Titov, M. Fujiwara, and T.-S. H. Lee
Phys. Rev. C **66**, 022202(R)/1-5 (2002)

Monte Carlo Integration in Glauber Model Analysis of Reactions of Halo Nuclei
K. Varga, Steven C. Pieper, Y. Suzuki, and R. B. Wiringa
Phys. Rev. C **66**, 034611/1-7 (2002)

Quantum Monte Carlo Calculations of $A = 9, 10$ Nuclei
Steven C. Pieper, K. Varga, and R. B. Wiringa
Phys. Rev. C **66**, 044310/1-14 (2002)

Role of E1-E2 Interplay in Multiphonon Coulomb Excitation
Alexander Volya and Henning Esbensen
Phys. Rev. C **66**, 044604/1-10 (2002)

Dynamic Polarization in the Coulomb Dissociation of ${}^8\text{B}$
H. Esbensen and G. F. Bertsch
Phys. Rev. C **66**, 044609/1-4 (2002)

One-Loop Corrections to ω Photoproduction Near Threshold
Yongseok Oh and T.-S. H. Lee
Phys. Rev. C **66**, 045201/1-9 (2002)

Continuum Versus Periodic Lattice Monte Carlo Approach to Classical Field Theory
Bogdan Mihaila and John F. Dawson
Phys. Rev. D **65**, 071501/1-5 (2002)

Higher-Order Effects in the Two-Body Breakup of ${}^{17}\text{F}$
H. Esbensen and G. F. Bertsch
Nucl. Phys. **A706**, 383-399 (2002)

Use of Mathematical Logical Concepts in Quantum Mechanics: An Example
Paul Benioff
J. Phys. A **34**, 5843-5857 (2002)

Numerical Approximations Using Chebyshev Polynomial Expansions: El-gendi's Method Revisited
Bogdan Mihaila and Ioana Mihaila
J. Phys. A **35**, 731-746 (2002)

Parallel Algorithm with Spectral Convergence for Nonlinear Integro-Differential Equations
B. Mihaila and R. E. Shaw
J. Phys. A **35**, 5315-5331 (2002)

Physics as an Element of Radiation Research
Mitio Inokuti and Stephen M. Seltzer
Radiation Research **158**, 3-12 (2002)

The Representation of Numbers in Quantum Mechanics
Paul Benioff
Algorithmica **34**, 529-559 (2002)

Pion-Nucleus Interactions
T.-S. H. Lee and R. P. Redwine
Ann. Rev. Nucl. Part. Sci. **52**, 23-63 (2002)

Cauchy's Dispersion Equation Reconsidered: Dispersion in Silicate Glasses
D. Y. Smith, Mitio Inokuti, and W. Karstens
Radiation Effects and Defects in Solids **157**, 823-828 (2002)

Quantum Monte Carlo for Light Nuclei
Steven C. Pieper
Proceedings of the 5th International Conference on Radioactive Nuclear Beams (RNB-5),
Divonne, France, April 3-8, 2000; *Nucl. Phys. A* **701**, 357c-362c (2002)

Goldstone Boson's Valence-Quark Distribution
C. D. Roberts
Proceedings of the 11th International Light-Cone Workshop on Light-Cone Physics:
Particles and Strings, Trento, Italy, November 3-11, 2001; *Nucl. Phys. B* **108**, 227-233
(2002)

Space Searches with a (quantum) Robot
Paul Benioff
American Mathematical Society Annual Meeting, Washington, DC. January 17-21, 2000;
Contemporary Mathematics **305**, 1-12 (2002)

Quantum Monte Carlo Calculations of Light Nuclei
Steven C. Pieper
Proceedings of the International Symposium on Perspectives in Physics with Radioactive
Isotope Beams 2000 (RIB00), November 13-16, 2000, Kanagawa-Hayama, Japan; *Eur.
Phys. J. A* **13**, 75-79 (2002)

Study of Hadron Quark-Substructure with GeV Electrons and Photons

T.-S. H. Lee

Proceedings of the International Workshop on Physics with GeV Electrons and Gamma-Rays, eds. T. Tamae, J. Kasagi, T. Terasawa, H. Yamazaki, Sendai, Japan, February 13-15, 2001 (University Academy Press, Inc., Tokyo, Japan 2001) pp. 1-6

Rotating Nuclei in the Relativistic Mean Field Theory: Microscopic Nature of Nuclear Magnetism

A. V. Afanasjev, S. G. Frauendorf, and P. Ring

Proceedings of the NATO Advanced Research Workshop on The Nuclear Many-Body Problem 2001, Brijuni, Pula, Croatia, June 2-5, 2001, eds. W. Nazarewicz and D. Vretenar (Kluwer Academic Publishers 2002) pp. 103-110

Quantum Monte Carlo Calculations of P-Shell Nuclei

Steven C. Pieper

Proceedings of the NATO Advanced Research Workshop on the Nuclear Many-Body Problem 2001, Brijuni, Pula, Croatia, June 2-5, 2001, eds. W. Nazarewicz and D. Vretenar (Kluwer Academic Publishers 2002) pp. 11-18

Modern Dyson-Schwinger Equation Studies

M. B. Hecht and C. D. Roberts

Proceedings of the 9th International Symposium on Meson-Nucleon Physics and the Structure of the Nucleon (MENU2001), Washington, DC, July 26-31, 2001; π N Newsletter **16**, 202-212 (2002)

Probing the Gateway to Superheavy Nuclei in Cranked Relativistic Hartree-Bogoliubov Theory

A. V. Afanasjev, T. L. Khoo, S. Frauendorf, I. Ahmad, and G. A. Lalazissis

Conference on Frontiers of Nuclear Structure, Berkeley, CA, July 29-August 2, 2002, LBNL-50598 Abs., Book of Abstracts, p. 1 (2002)

QMC Calculations of Light Nuclei

Steven C. Pieper

April 2002 Meeting of the American Physical Society, Albuquerque, NM, April 20-23, 2002; Bull. Am. Phys. Soc. **47**, 91 (2002)

Evolution of Nuclear Spectra with Nuclear Forces

R. B. Wiringa and Steven C. Pieper

April 2002 Meeting of the American Physical Society, Albuquerque, NM, April 20-23, 2002; Bull. Am. Phys. Soc. **47**, 165 (2002)

Nuclear Shell Model for States Embedded in the Continuum

Alexander Volya and Vladimir Zelevinsky

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 35 (2002)

Quantum Monte Carlo Calculations of $A \leq 10$ Nuclei

Steven C. Pieper and R. B. Wiringa

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 35 (2002)

Breakup of ^{17}F by ^{208}Pb Near the Coulomb Barrier

J. F. Liang, J. R. Beene, A. Galindo-Uribarri, J. Gomez del Campo, C. J. Gross, P. A. Hausladen, Y. Larochelle, P. E. Mueller, D. Shapira, D. W. Stracener, R. L. Marner, Henning Esbensen, and J. D. Bierman

2002 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, East Lansing, MI, October 9-12, 2002; Bull. Am. Phys. Soc. **47**, 92 (2002)

Rare Isotope Accelerators

Guy Savard

April 2002 Meeting of the American Physical Society, Albuquerque, NM, April 20-23, 2002; Bull. Am. Phys. Soc. **47**, 192 (2002)